

Fig. 1

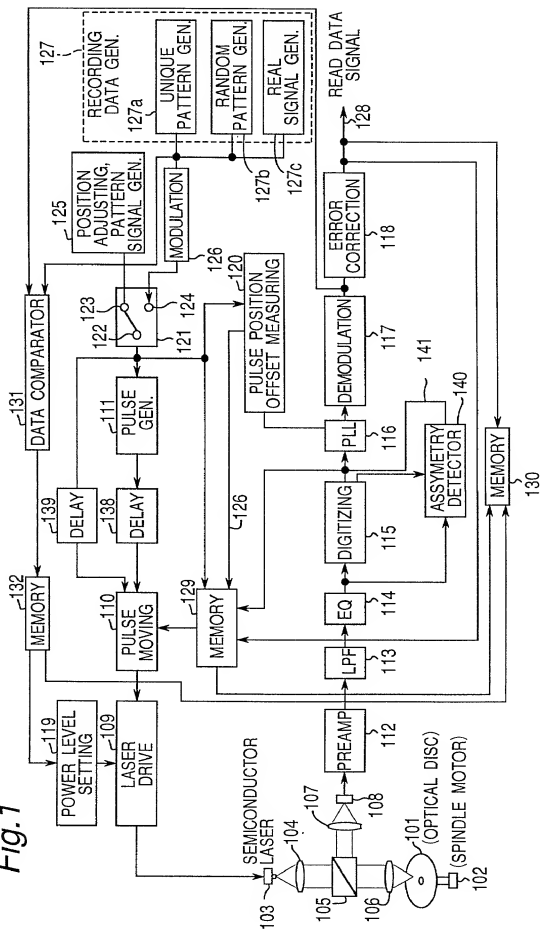


Fig.2

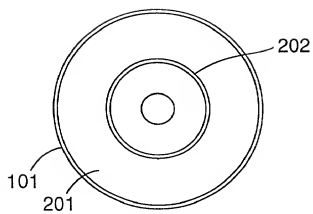


Fig.3

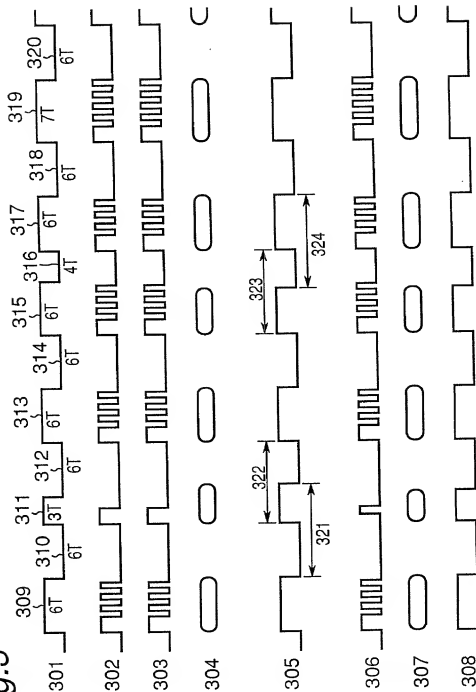
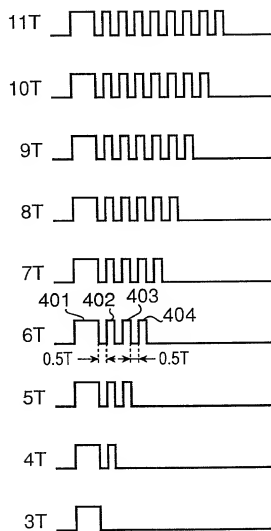


Fig.4



FIRST PULSE MOVEMENT (TF)	MARK SIGNAL			LAST PULSE MOVEMENT (TL)	MARK SIGNAL			
	$\geq 5T$	4T	3T		$\geq 5T$	4T	3T	
PRECEDING SPACE SIGNAL	$\geq 5T$	5S5M	5S4M	5S3M	$\geq 5T$	5M5S	4M5S	3M5S
	4T	4S5M	4S4M	4S3M	FOLLOWING SPACE SIGNAL	5M4S	4M4S	3M4S
	3T	3S5M	3S4M	3S3M	3T	5M3S	4M3S	3M3S

Fig.5A

FIRST PULSE MOVEMENT (TF)	MARK SIGNAL			LAST PULSE MOVEMENT (TL)	MARK SIGNAL			
	$\geq 5T$	4T	3T		$\geq 5T$	4T	3T	
PRECEDING SPACE SIGNAL	$\geq 5T$	5S5M	5S4M	5S3M	$\geq 5T$	5M5S	4M5S	3M5S
	4T	4S5M	4S4M	4S3M	FOLLOWING SPACE SIGNAL	5M4S	4M4S	3M4S
	3T	3S5M	3S4M	3S3M		5M3S	4M3S	3M3S

Fig.5B

Fig. 8

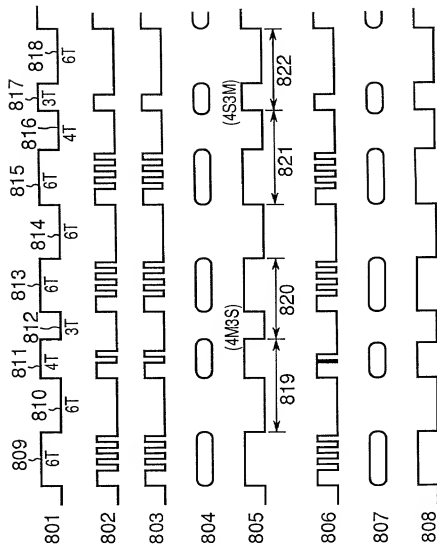
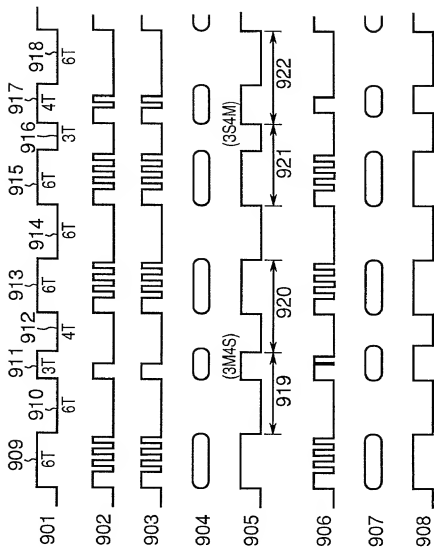


Fig. 9



00703632.021504
10703632.021504

Fig.10

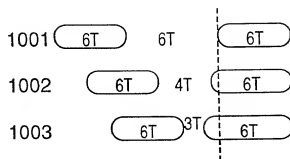


Fig.11

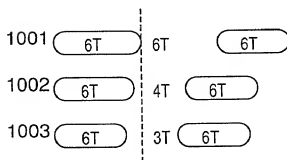


Fig.12

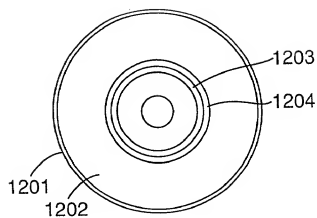


Fig.13

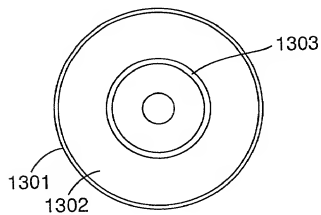


Fig.14

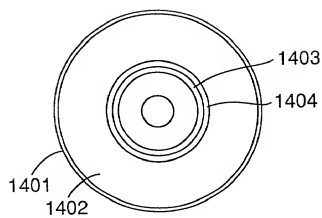


Fig.15

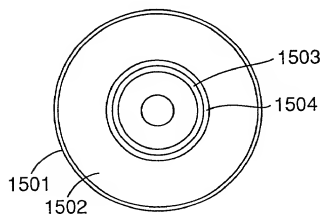


Fig.16

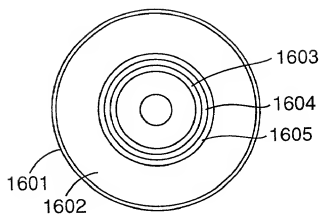


Fig.17

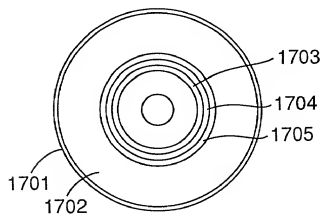


Fig.18

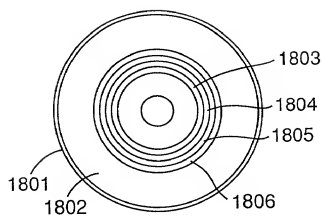


Fig.19

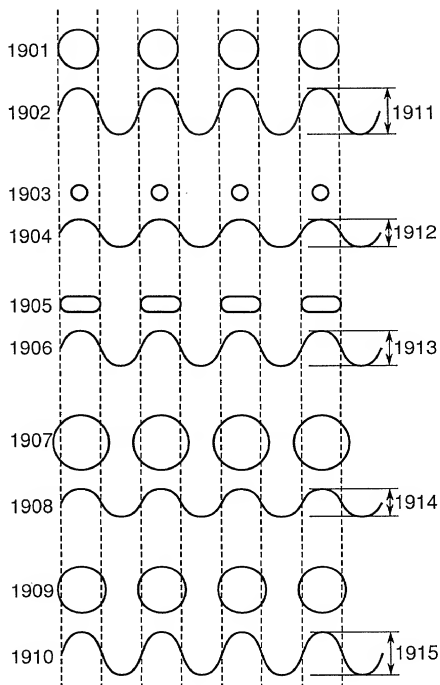


Fig.20A

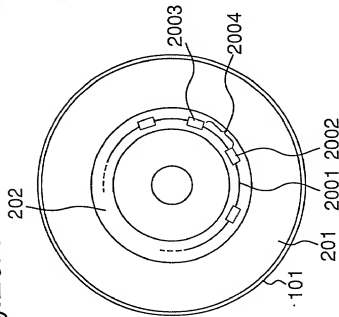


Fig.20B

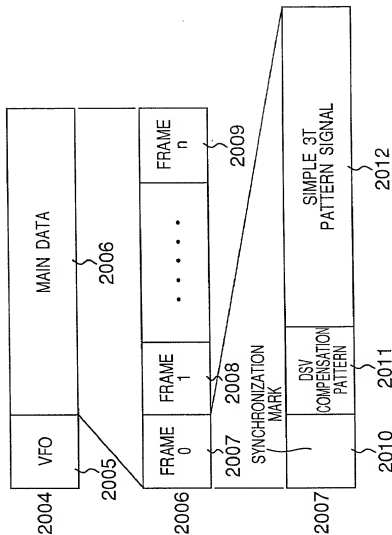


Fig.20C

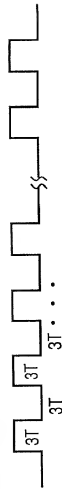


Fig.21

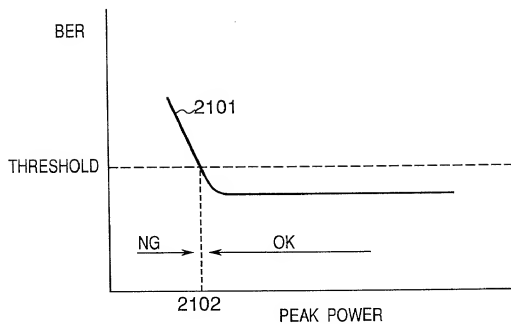


Fig.22

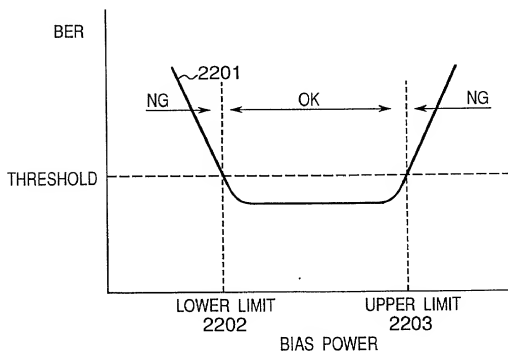


Fig.23

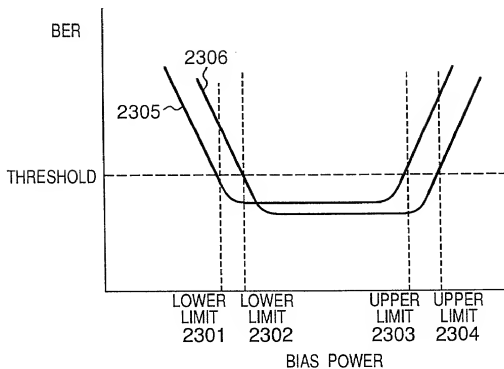


Fig.24

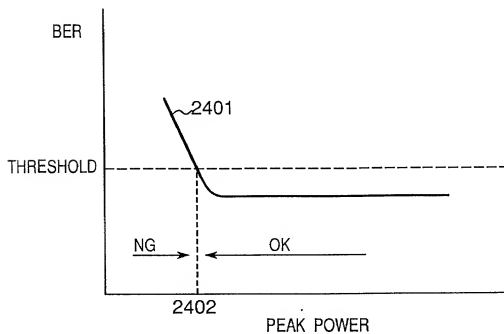


Fig.25

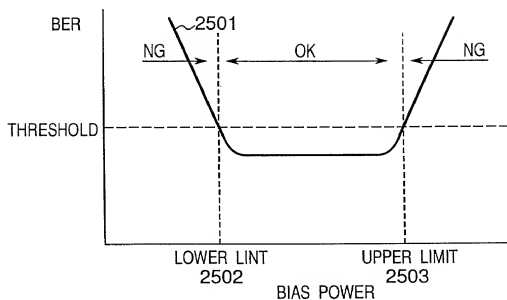


Fig.26

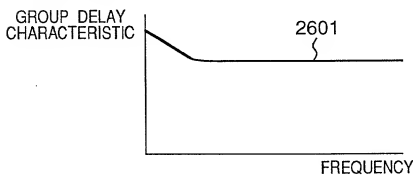


Fig.27

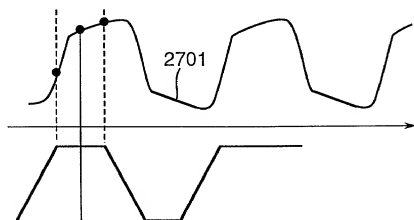


Fig.28A

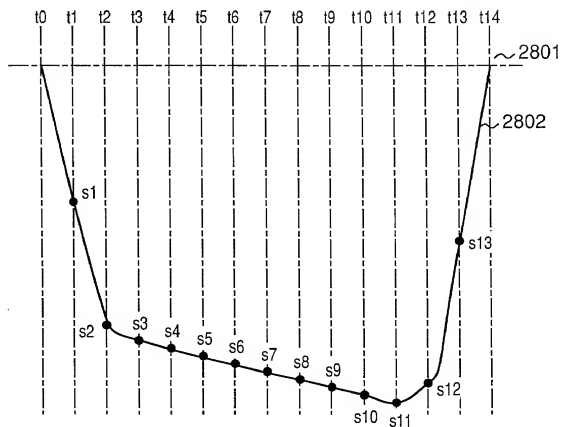


Fig.28B

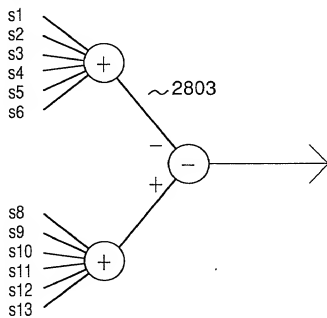


Fig.29A

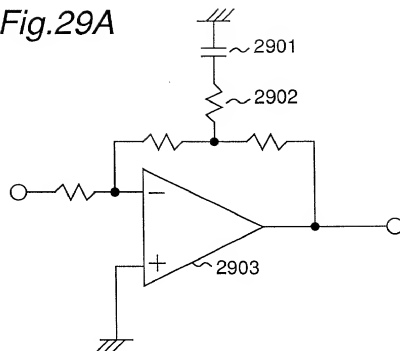


Fig.29B

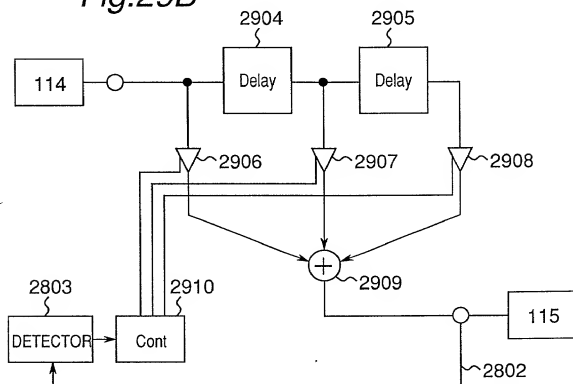
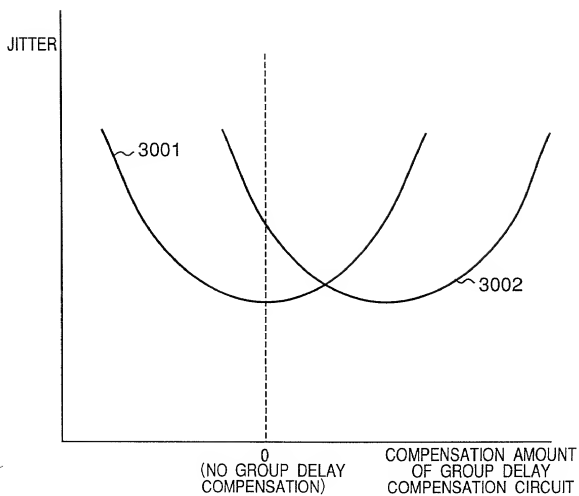


Fig.30



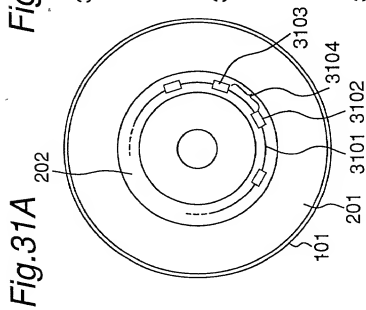


Fig.31B

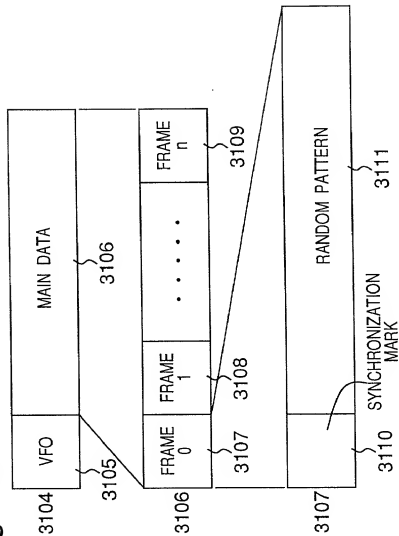


Fig.31C

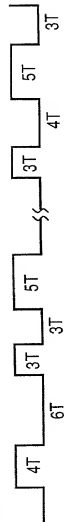
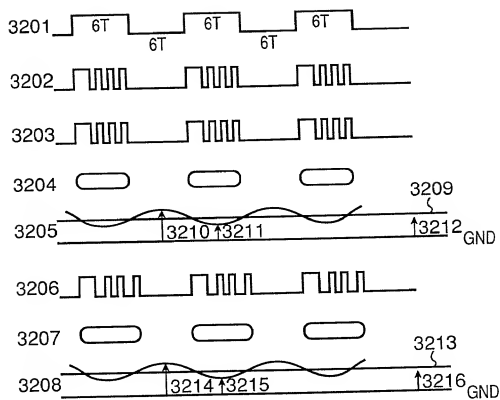


Fig.32



0178	0179	0180	0181	0182	0183	0184	0185
0186	0187	0188	0189	0190	0191	0192	0193
0194	0195	0196	0197	0198	0199	0200	0201
0202	0203	0204	0205	0206	0207	0208	0209
0210	0211	0212	0213	0214	0215	0216	0217
0218	0219	0220	0221	0222	0223	0224	0225
0226	0227	0228	0229	0230	0231	0232	0233
0234	0235	0236	0237	0238	0239	0240	0241
0242	0243	0244	0245	0246	0247	0248	0249
0250	0251	0252	0253	0254	0255	0256	0257
0258	0259	0260	0261	0262	0263	0264	0265
0266	0267	0268	0269	0270	0271	0272	0273
0274	0275	0276	0277	0278	0279	0280	0281
0282	0283	0284	0285	0286	0287	0288	0289
0290	0291	0292	0293	0294	0295	0296	0297
0298	0299	0300	0301	0302	0303	0304	0305
0306	0307	0308	0309	0310	0311	0312	0313
0314	0315	0316	0317	0318	0319	0320	0321
0322	0323	0324	0325	0326	0327	0328	0329
0330	0331	0332	0333	0334	0335	0336	0337
0338	0339	0340	0341	0342	0343	0344	0345
0346	0347	0348	0349	0350	0351	0352	0353
0354	0355	0356	0357	0358	0359	0360	0361
0362	0363	0364	0365	0366	0367	0368	0369
0370	0371	0372	0373	0374	0375	0376	0377
0378	0379	0380	0381	0382	0383	0384	0385
0386	0387	0388	0389	0390	0391	0392	0393
0394	0395	0396	0397	0398	0399	0400	0401
0402	0403	0404	0405	0406	0407	0408	0409
0410	0411	0412	0413	0414	0415	0416	0417
0418	0419	0420	0421	0422	0423	0424	0425
0426	0427	0428	0429	0430	0431	0432	0433
0434	0435	0436	0437	0438	0439	0440	0441
0442	0443	0444	0445	0446	0447	0448	0449
0450	0451	0452	0453	0454	0455	0456	0457
0458	0459	0460	0461	0462	0463	0464	0465
0466	0467	0468	0469	0470	0471	0472	0473
0474	0475	0476	0477	0478	0479	0480	0481
0482	0483	0484	0485	0486	0487	0488	0489
0490	0491	0492	0493	0494	0495	0496	0497
0498	0499	0500	0501	0502	0503	0504	0505
0506	0507	0508	0509	0510	0511	0512	0513
0514	0515	0516	0517	0518	0519	0520	0521
0522	0523	0524	0525	0526	0527	0528	0529
0530	0531	0532	0533	0534	0535	0536	0537
0538	0539	0540	0541	0542	0543	0544	0545
0546	0547	0548	0549	0550	0551	0552	0553
0554	0555	0556	0557	0558	0559	0560	0561
0562	0563	0564	0565	0566	0567	0568	0569
0570	0571	0572	0573	0574	0575	0576	0577
0578	0579	0580	0581	0582	0583	0584	0585
0586	0587	0588	0589	0590	0591	0592	0593
0594	0595	0596	0597	0598	0599	0600	0601
0602</							

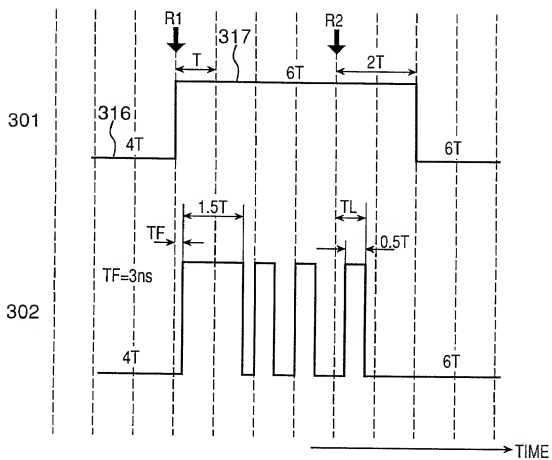


Fig. 34

INSIDE CIRCUMFERENCE SIDE		
PIT AREA	INITIALIZATION ZONE	
	CONTROL DATA ZONE	DISC TYPE READ P PULSE ADJUSTMENT METHOD TEMPORARY P INFO (GEN) (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) OPERATIONAL P INFO (GEN) (PEAK P, BIAS P, MARGIN CONSTANT) ASYMMETRY (GEN) PULSE POSITION INFO (GEN) DISC SPECIFIC INFO
	REPEAT THE ABOVE FOR FAIL SAFE	
MIRROR AREA	CONNECTION ZONE	
RECORDING AREA	GUARD TRACK ZONE 1	
	DISC TEST ZONE 1	
	DRIVE TEST ZONE 1	
	RECORDER-SPECIFIC INFO RECORDING ZONE 1	RECORDER-SPECIFIC INFO 1 TEMPORARY P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) OPERATIONAL P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT) PULSE POSITION INFO (UNIQUE) (ASYMMETRY) P MARGIN INFO
		RECORDER-SPECIFIC INFO 2 TEMPORARY P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) OPERATIONAL P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT) PULSE POSITION INFO (UNIQUE) (ASYMMETRY) P MARGIN INFO
		. . .
		RECORDER-SPECIFIC INFO n TEMPORARY P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) OPERATIONAL P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT) PULSE POSITION INFO (UNIQUE) (ASYMMETRY) P MARGIN INFO
	REPEAT THE ABOVE FOR FAIL SAFE	
	DISC ERROR MANAGEMENT AREA 1	
	DATA AREA	

0070603.004501

Fig. 35

DATA AREA	
DISC ERROR MANAGEMENT AREA 2	
RECORDER-SPECIFIC INFO RECORDING ZONE 2	RECORDER-SPECIFIC INFO 1 TEMPORARY P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) OPERATIONAL P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT) PULSE POSITION INFO (UNIQUE) (ASYMMETRY) P MARGIN INFO
	RECORDER-SPECIFIC INFO 2 TEMPORARY P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) OPERATIONAL P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT) PULSE POSITION INFO (UNIQUE) (ASYMMETRY) P MARGIN INFO
	. . .
	RECORDER-SPECIFIC INFO 3 TEMPORARY P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY) OPERATIONAL P INFO (UNIQUE) (PEAK P, BIAS P, MARGIN CONSTANT) PULSE POSITION INFO (UNIQUE) (ASYMMETRY) P MARGIN INFO
	REPEAT THE ABOVE FOR FAIL SAFE
	DRIVE TEST ZONE 2
	DISC TEST ZONE 2
	GUARD TRACK ZONE 2
OUTSIDE CIRCUMFERENCE SIDE	

Fig.36

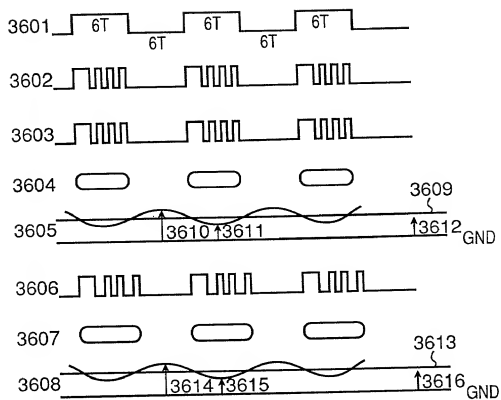


Fig. 37

130

<p>DISC-SPECIFIC INFO 1</p> <p>TEMPORARY P INFO</p> <p>(PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY)</p> <p>OPERATIONAL P INFO</p> <p>(PEAK P, BIAS P, MARGIN CONSTANT)</p> <p>ASYMMETRY</p> <p>PULSE POSITION INFO</p>
<p>DISC-SPECIFIC INFO 2</p> <p>TEMPORARY P INFO</p> <p>(PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY)</p> <p>OPERATIONAL P INFO</p> <p>(PEAK P, BIAS P, MARGIN CONSTANT)</p> <p>ASYMMETRY</p> <p>PULSE POSITION INFO</p>
<p>.</p> <p>.</p> <p>.</p>
<p>DISC-SPECIFIC INFO n</p> <p>TEMPORARY P INFO</p> <p>(PEAK P, BIAS P, MARGIN CONSTANT, ASYMMETRY)</p> <p>OPERATIONAL P INFO</p> <p>(PEAK P, BIAS P, MARGIN CONSTANT)</p> <p>ASYMMETRY</p> <p>PULSE POSITION INFO</p> <p>POWER MARGIN INFO</p>

REPEAT THE ABOVE FOR FAIL SAFE

Fig. 38

DATA	ADJUSTMENT				TEST	RESULT	MEMORY 130			
	1ST/LAST		TEMP				1ST/		TEMP	
	SP		OP	ASYM	SP		LAST		OP	ASYM
FIG. 2	201									
FIG.12	1202	1203	Δ		202		Δ	Δ	Δ	
FIG.13	1302				1204					
FIG.14	1402	1403					Δ	Δ	Δ	
FIG.15	1502									
FIG.16	1602	1603	Δ	Δ	1504		Δ	Δ	Δ	Δ
FIG.17	1702			Δ	1605		Δ	Δ	Δ	Δ
FIG.18	1802	1803	Δ	Δ	1704		Δ	Δ	Δ	Δ
					1805		Δ	Δ	Δ	Δ
							1705-Δ			
							1806-Δ			

CONTROL DATA ZONE

TEST ZONE DISC-SPECIFIC INFO RECORDING ZONE

DATA..... DATA AREA

ADJUSTMENT AREA FOR RECORDING ADJUSTMENT METHOD WITH EMBOSSED PITS

1ST/LAST..... AREA FOR RECORDING INFO OF MARK START/END POSITIONS WITH EMBOSSED PITS

TEST..... AREA FOR TEST WRITING FOR OBTAINING INFO OF MARK START/END POSITIONS, OPTIMUM POWER, ETC.

RESULT..... AREA FOR RECORDING THE TEST RESULTS

SP..... INFO SPECIFIC TO THE DISC

TEMP..... INFO OF TEMPORARY POWER LEVEL INCLUDING PEAK POWER, BIAS POWER, MARGIN CONSTANT,

AND ASYMMETRY FOR USE IN ADJUSTING 1ST AND LAST PULSE POSITIONS

OP..... INFO OF OPERATIONAL POWER LEVEL INCLUDING PEAK POWER, BIAS POWER AND MARGIN CONSTANT

FOR USE IN RECORDING DATA IN DATA AREA

ASYM..... INFO OF ASYMMETRY FOR USE IN DETERMINING THE INITIAL POSITION OF 1ST AND LAST PULSES

Δ..... OPTION